CHENBRO

Server Chassis
4-Ports SATA III Backplane

User's Manual

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Dec / 03 / 2013

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Web Support

Detail information of our products is in our website. You can find technical updates, installation guides, FAQs, technical specifications and more. Our web address is: www.chenbro.com.

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You can also contact Chenbro HQ or branch office for immediate support; contact Information is as following:

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Revision History

Date	Modifications
Sep / 15 / 2010	● First release
Dec / 03 / 2013	● Add CN06 SGPIO Pin Assignment

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Hardware Specification

Specification	
Host Interface	SATAIII
HDD Interface	SATA / SAS
Hot-Swap	Yes, allows user to on line replace Hard Disk Drive
Display	LED indicates Hard Disk Drive status (Defined by Chenbro) Power LED – Blue (When HDD is present) Access LED –Green (When HDD is busy) Error LED –Red (When HDD is fail)
Cooling	3pin Fan connector x2
Connectors	1. SATA III x 4 2. SAS 29pin x 4 (for HDD) 3. Standard 4pin Power connector x 2 for +5V, +12V from power supply 4. PSU alarm 5. SGPIO
Dimension	114.8 (Length) x 107.8 (Width) x 2.4 (Thickness) mm

Accommodated Chassis

- SR105 / SR107 / SR108 / SR209

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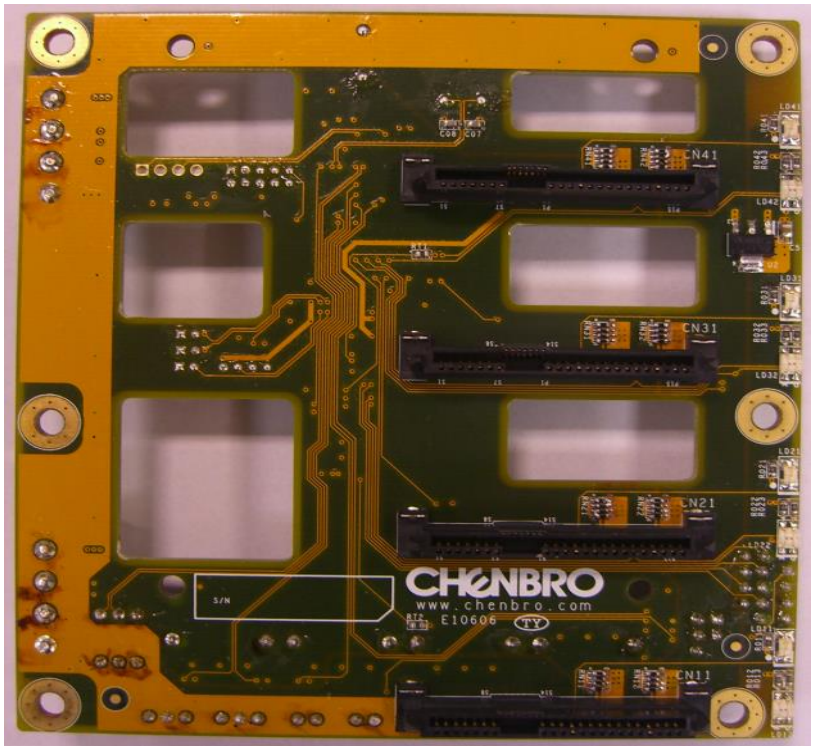
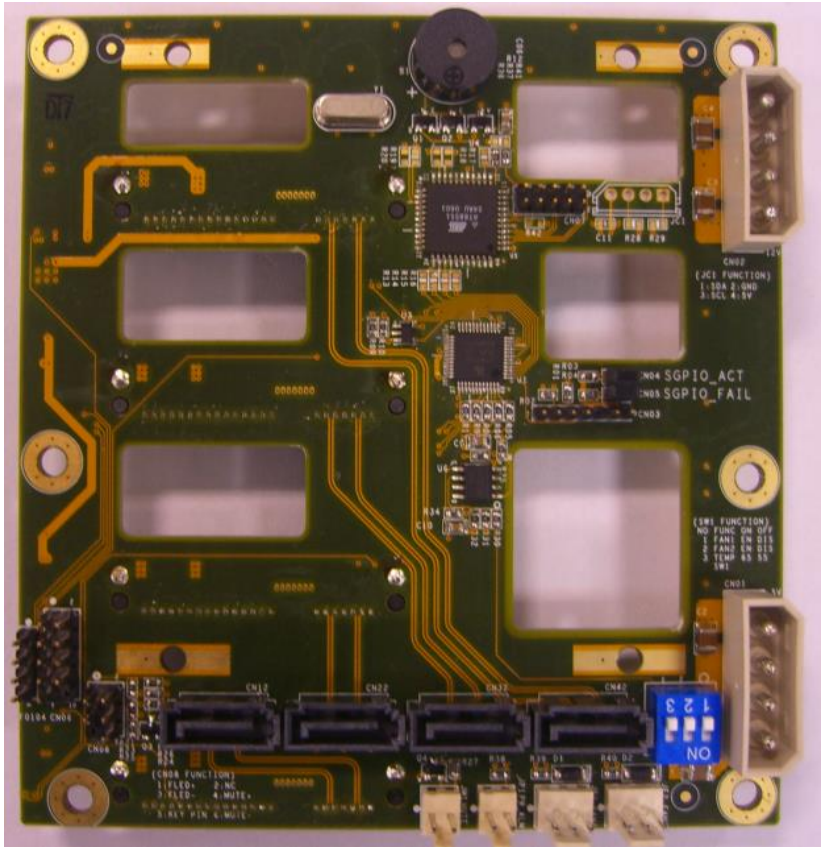
Backplane photos

Front side



Rear side



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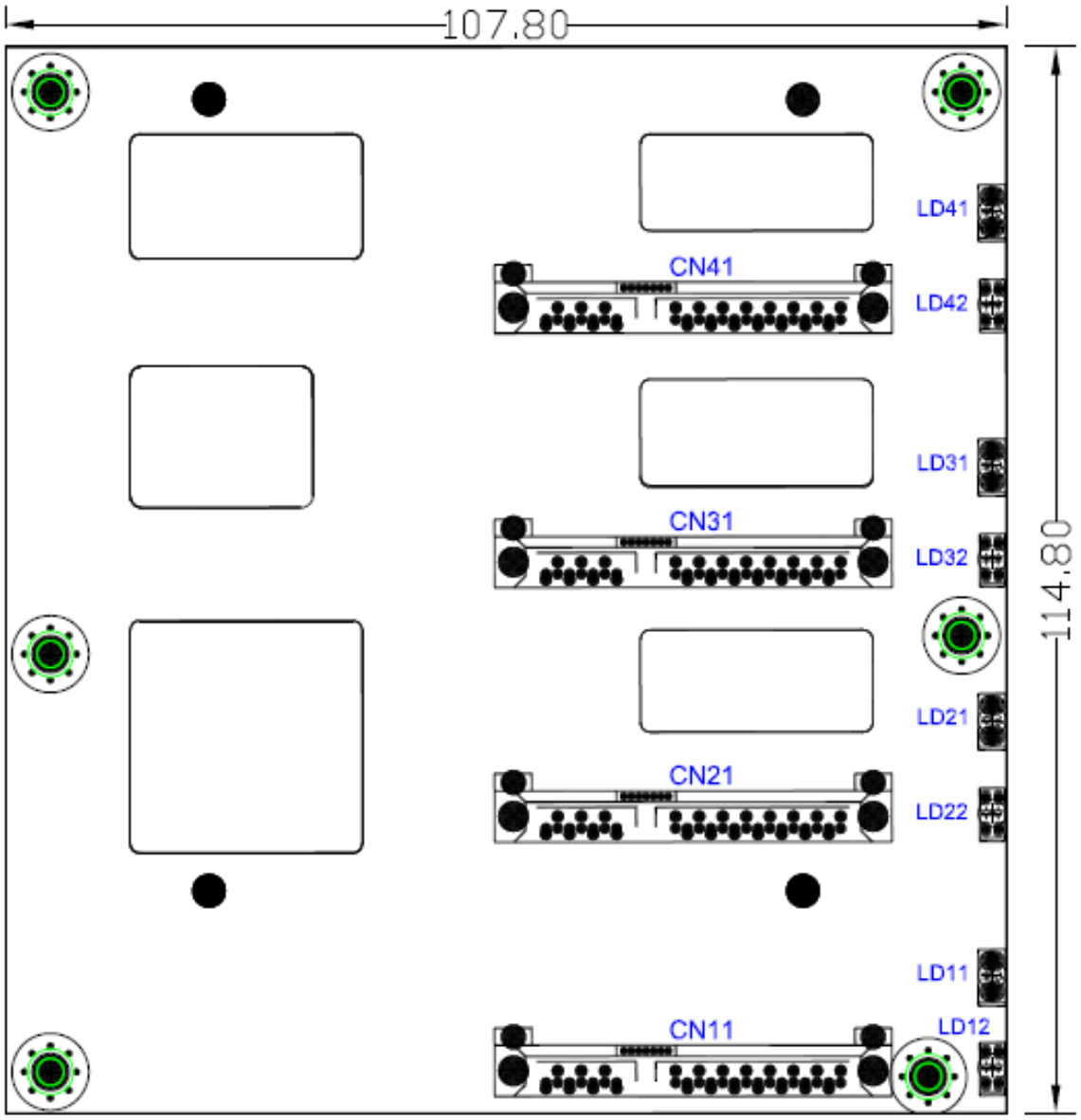
Backplane Layout

Front view (HDD slot IN)



1. *[CN11 / CN21 / CN31 / CN41]: connect to 29pin SAS or 22pin SATA II HDD*

2. *[LD11 / LD21 / LD31 / LD41]: Blue LED indicate HDD Power,*

3. *[LD12 / LD22 / LD32 / LD 42]: Green LED indicate HDD activity, Red LED indicate HDD failure.*

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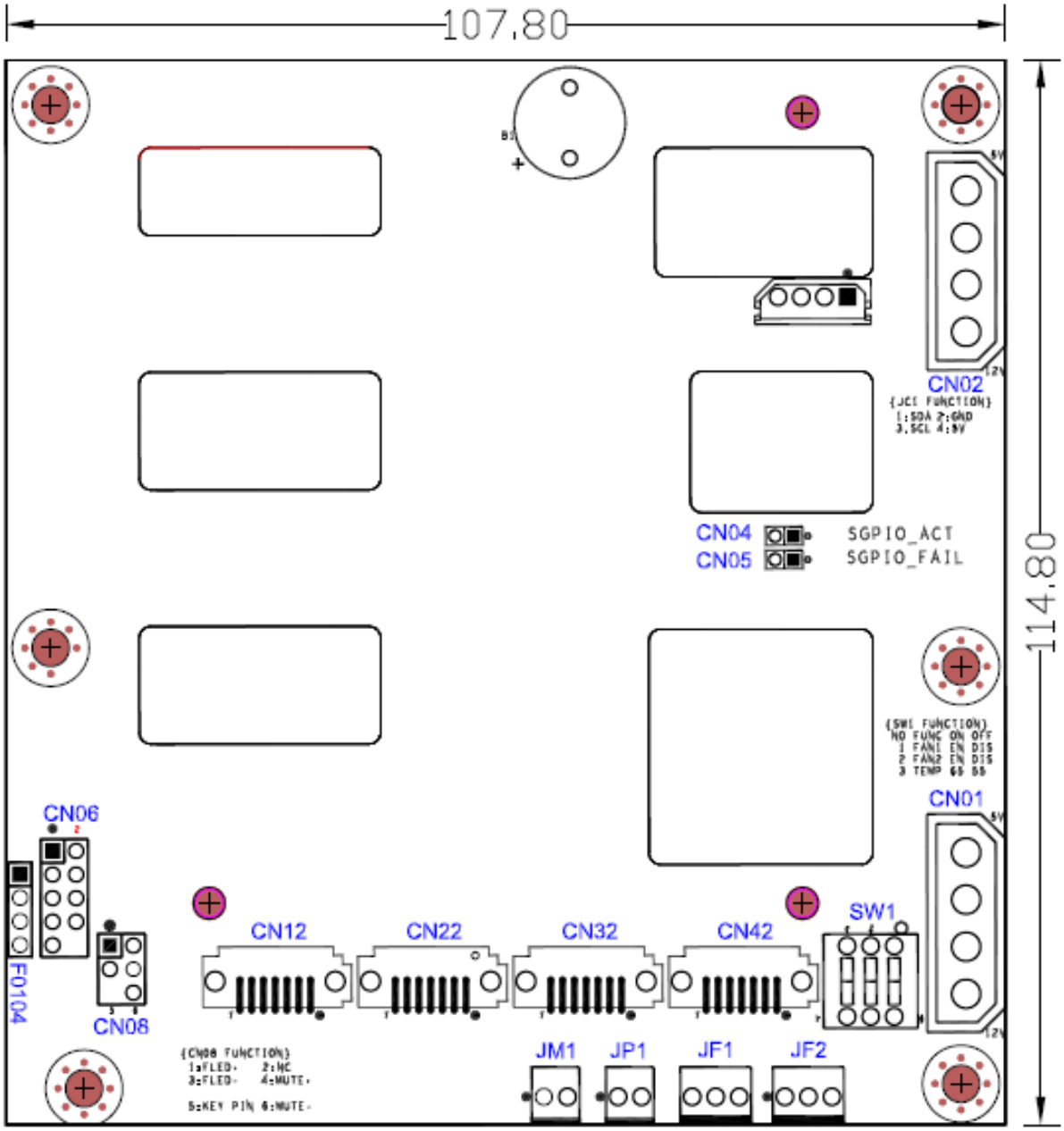
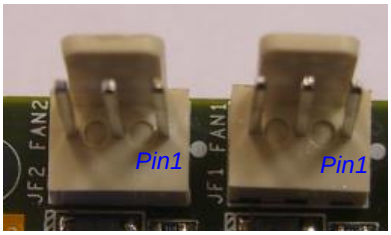
Rear View (Host Connectors IN)



4. *[CN12 / CN22 / CN32 / CN42]: connect to 7pin SATA II host*

5. *[JF1 / JF2]: 3P3C Fan connector*



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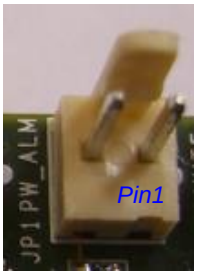
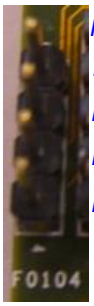
6. [JP1]: Power failure signal (To Redundant Power Supply)
7. [JM1]: Power Failure Alarm Mute (To Redundant Power Supply)



8. [F0104]: Discrete HDD Fail LED Signal Input connector (From RAID Card)



Pin1
HDD1
HDD2
HDD3
HDD4

9. [CN01 / CN02]: standard big 4pin power connector

10. [CN08]: Fan / Power / Temperature Fail LED output connector (To Front Panel LED Display)

Pin1

Pin6

Pin	Definition	Function
1	LED (+)	FAN / Power / Temp Fail LED
2	N/A	
3	LED (-)	FAN / Power / Temp Fail LED
4	Buzzer Mute (+)	
5	Key Pin	
6	Buzzer Mute (-)	

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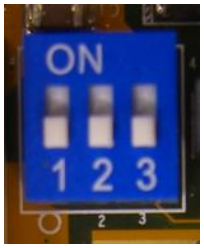
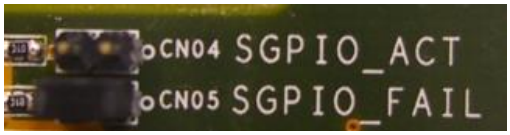
11. [SW1]: Fan & Temperature setting



Function	Fan1	Fan2	Temp
Pin	1	2	3
ON	Enable	Enable	65
OFF	Disable	Disable	55

12. [CN04]: SGPIO HDD access function jumper
[CN05]: SGPIO HDD fail function jumper

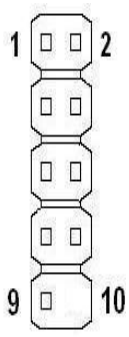


CN05	CN04	SGPIO	Pin B8 Signal
Close	Close	Enable HDD failure and activity signal via SGPIO	Low
Close	Open	Enable HDD failure signal via SGPIO (Default)	Low
Open	Close	Enable HDD activity signal via SGPIO	Low
Open	Open	Disable HDD failure and activity signal via SGPIO	High

13. [CN06]: External HDD Activity LED Signal Input connector (from RAID Card)

SGPIO SIGNAL CONNECTOR (CN06)

Pin NO.	Descriptions	Pin NO.	Descriptions
1	SGPIO DATA INPUT	2	NC
3	SGPIO DATA OUTPUT	4	GND
5	GND	6	SGPIO LOAD
7	CONTROL TYPE	8	SGPIO CLOCK
9	NC	10	KEY PIN



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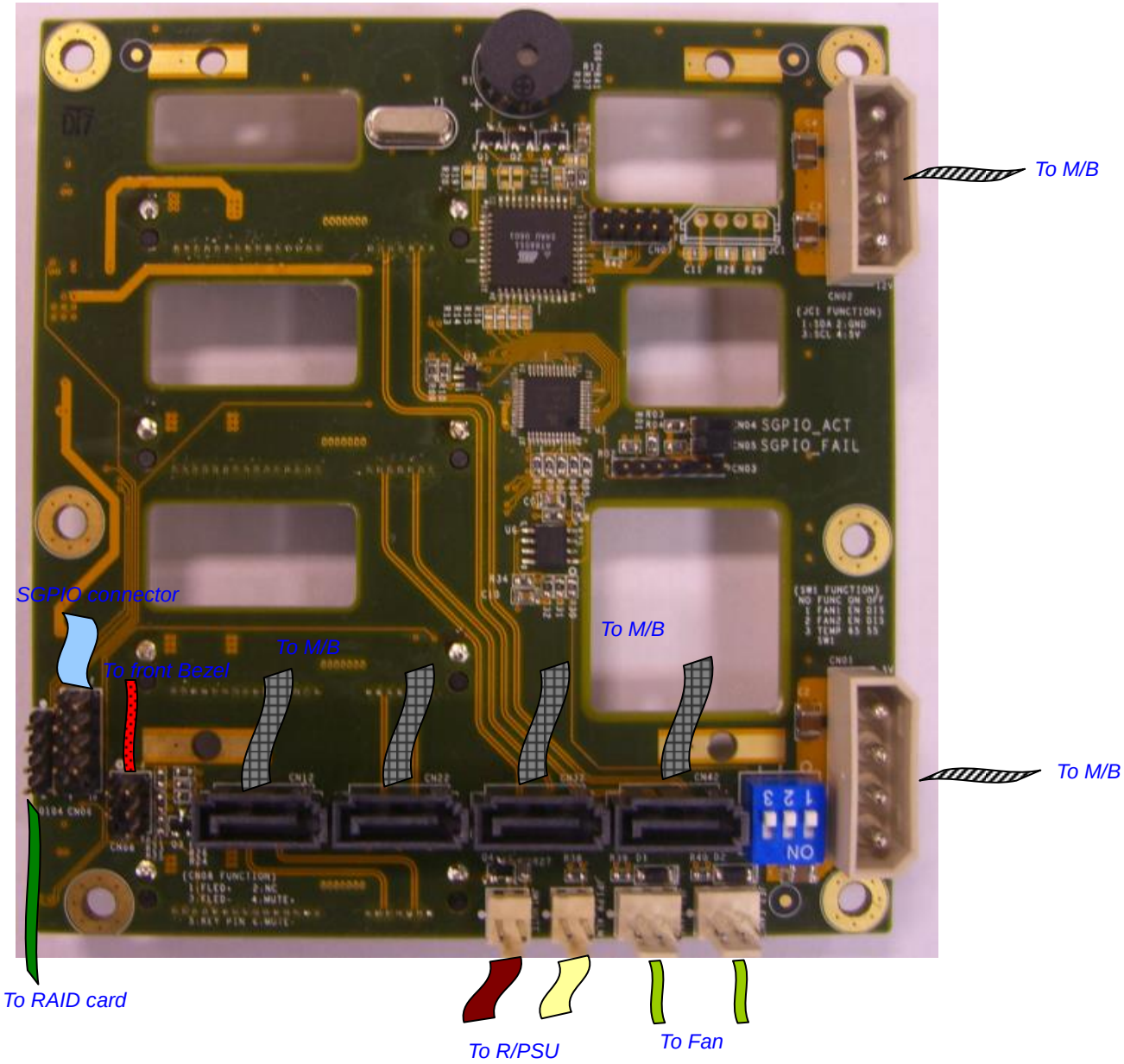
Backplane Wiring



	SATA 7pin Cable
	Fan cable
	standard big 4pin power
	HDD Fail LED Signal Input
	Fan / Power / Temperature Fail LED output
	Power failure input
	Power Failure Alarm Mute Output
	External HDD Activity LED Signal Input

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